

SAN JUAN DIVISION

Sent Federal Express

Mr. Michael Stogner New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505

Re:

San Juan 27-5 Unit #83M

2550'FNL, 2076'FWL Section 9, T-27-N, R-5-W, Rio Arriba County

30-039-26292

Dear Mr. Stogner:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Basin Dakota. This well is planned as a Blanco Mesaverde/Basin Dakota commingled well. The referenced footage is a standard location for the Mesaverde by Order R-10987A dated February 3, 1999. This location is at the request of the Bureau of Land Management due to rough terrain in the form of very steep slopes which prevent an acceptable access road and well location.

Production from the Dakota pool is to be included in a 320 acre gas spacing and proration unit for the north half (N/2) in Section 9. Production from the Mesaverde is to be included in a 320 acre gas spacing and proration unit for the west half (W/2) in Section 9. Order DHC-2584 was received to commingle production from the Dakota and Mesaverde.

The following attachments are for your review:

- Application for Permit to Drill
- Completed C-102 at referenced location.
- Offset operators/owners plat Burlington is the operator of the San Juan 27-5 Unit
- Topographic map

Burlington Resources believes there are no correlative rights issues because the encroachment is toward federal unit property. The San Juan 27-5 Unit #83M well is offset by San Juan 27-5 Unit acreage and Burlington is the operator of the San Juan 27-5 Unit.

Sincerely,

Peggy Cole

Regulatory Supervisor

xc:

NMOCD - Aztec District Office Bureau of Land Management

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a. lb.	Type of Work DRILL	5. Lease Number SF-079391
b.	DRILL	3F-079391 C
b.		Unit Reporting Number
b.		DK-8910009500
b.		MV-891000950A
D.	Time of Mell	6. If Indian, All. or Tribe
	Type of Well	o. Il litarating ratio of 11100
	GAS	
<u>.</u>	Operator	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	07.5.7.4
	RESOURCES Oil & Gas Company	San Juan 27-5 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
).	PO Box 4289, Farmington, NM 87499	San Juan 27-5 Unit
	FO BOX 4203, Turmingcom, mr o 133	9. Well Number
	(505) 326-9700	83M
	(303) 320-3700	
4.	Location of Well	10. Field, Pool, Wildcat
₩.	2550' FNL, 2075' FWL	Blanco MV/Basin DK
	2330 FMB, 2073 FM2	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 35.3, Longitude 107° 22.0	Sec. 9, T-27-N, R-5-W
	Latitude 50 55.5, Longitude 10. 11.	API# 30-039-26272
14.	Distance in Miles from Nearest Town	12. County 13. State
14.	60 miles from Blanco	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
	2075'	17. Acres Assigned to Well
16.	Acres in Lease	MV - 320 W/2
		DK - 320 N/2
		DR - 320 N/2
18.	Distance from Proposed Location to Nearest Well, Drig, Compl,	or Applied for on this Lease
	1000' This action is subject to technical and:	
19.	Proposed Depth ' precedural review pursuant to 43 CFR 3165.3	20. Rotary or Cable Tools
	8549' and appeal pursuant to 43 CFR 3186.4.	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
21.	7297' GR	••
23.	Proposed Casing and Cementing Program	DRILLING OPERATIONS AUTHORIZED ARE
23.	See Operations Plan attached	SUBJECT TO COMPLIANCE WITH ATTACH
	See Operacions fram accounts	
) 4	"GENERAL REQUIREMENTS".
		12 22 24
24	Authorized by: Leaves Cale	12.20.77
24.	Regulatory/Compliance Administrate	Date
		2/1/60
PERI	MIT NO APPROVAL I	DATE
	ROVED BY NHS Best TITLE LONG	Les , DATE 3/6/00

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department State of New Mexico Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Form C-102

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

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API N	lumber			Pool Code 19/715		Blanco Mes	³ Pool Name)akot	
30-039			123.	19//15	Property N		averue/ Da	25111 1		ll Number
*Property Co	de			9	SAN JUAN 27-				83M	
7454				<u> </u>	*Operator }				* Elevation	
14538		BURLINGTON RESOURCES OIL & GAS COMPANY				7297'				
					10 Surface		<u>, </u>	,		
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the 2075	East/We		RIO ARRIBA
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UL or lot no.	Section	- Township	Range	Lot idn	Feet from the	North/South line	Feet from the	Last/We	est me	County
Dedicated Acro		129	Joint or Inf	50	14 Consolidation	Code	¹⁰ Order No.			
MV: W/	320									
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FD. 1957 BLM BRASS			LAT.			F-079391	Peg Printer Regu Title Date 18 I hereby was plot or under	SURVE certify that	ry Ad ZO- YOR C: the well to ide notes of things, and ti	ministra 99 ERTIFICATIO

OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #83M

2550'FNL, 2075'FWL, Sec 9, T-27-N, R-5-W Location:

Rio Arriba County, NM Latitude 36° 35.3, Longitude 107° 22.0

Blanco Mesa Verde/Basin Dakota Formation:

7297' GL Elevation:

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	3449'	
Ojo Alamo	3449'	3629 ′	aquifer
Kirtland	3629 '	3699′	gas
Fruitland	3699'	4118'	gas
Pictured Cliffs	4118'	4209'	gas
Lewis	4209'	4659'	gas
Intermediate TD	4309'		
	4659'	5070 ′	gas
Mesa Verde	5070'	5784'	gas
Chacra	5784'	5929'	gas
Massive Cliff House	5929'	6289 ′	qas
Menefee	6289'	6788'	gas
Massive Point Lookout		7458 ′	qas
Mancos	6788′		_
Gallup	7458'	8224'	gas
Greenhorn	8224'	8284'	gas
Graneros	8284'	8319'	gas
Dakota	8319'		gas
TD	8549'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface Cores - none

Mud Program:

Interval Type Weight Vis. Fluid Los	ٽ ,
0-200' Spud 8.4-9.0 40-50 no contr	
0 4 0 0 20 60 mg contr	ol
200- 4309 11380	
4309- 8549' Gas n/a n/a n/a	

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval 0' - 200'	<u>Csg.Size</u> 9 5/8"	32.3#	Grade WC-50
8 3/4"	0' - 4309'	7 "	20.0#	
6 1/4"	4209' - 8549'	4 1/2"	10.5#	

Tubing Program:

0' - 8549' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

- Surface to Total Depth -2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).
- Completion Operations -7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Bowspring centralizers will be Saw tooth guide shoe on bottom. run in accordance with Onshore Order #2.

7" intermediate casing -"B" w/3% sodium metasilicate, Lead w/402 sx Class gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride, 2% gel (1296 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 3599'. First stage: cement with w/158 sx Class "B" 50/50 poz w/2% gel, 2% calcium chloride, 0.5 pps Cellophane. Second stage: 369 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 10 pps Gilsonite (1296 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 3629'. Two turbolating centralizers at the base of the Ojo Alamo at 3629'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 491 sx 50/50 Class "H" Poz with 2% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.2% retardant and 0.4% fluid loss additive (624 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

- Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 $1/2" \times 7"$ casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be production tubing will be production. and the production tubing will be run to produce the well.
- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Dakota and Mesa Verde formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi 600 psi Pictured Cliffs 700 psi Mesa Verde 2500 psi Dakota

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half of Section 9 is dedicated to the Mesaverde and the north half of Section 9 is dedicated to the Dakota in this well.

This gas is dedicated.

16 Drilling Engineet 12/27/1999

BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-5 Unit #83M Section 9, T-27-N, R-5-W

OFFSET OPERATOR/OWNER PLAT

Nonstandard Location Dakota Formation Well

	· · · · · · · · · · · · · · · · · · ·	
4 39.85 3 39.96 2 40.08 1 40.19 53A 85E NM 2103 78	NM 2103 (1/2) - 52A	4 39.71 3 39.65 2 39.60 1 39.56 NM 2103 21 (NWPC)
⁶¹ ⊗ M	,	
85 5 78E 61A	4 89 ₩ P	3 1 109E 21A 21B SER
53 M P S.J. 27-5 Un.	∑S.J. 27-5 Un.	25B 25 84 P S.J. 27-5 Un. N.P.(D)SW/4 S.J. 27-5 Un.
112M NM 2106	6-4A NW 2106 83 2 2C	113E (AMOCO) NM 8735 113 113B M 101A K
2550′ FNL —	8344	10
112 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28 86M 86 1	101 01B 101B 101E
S.J. 27-5 Un.	P S.J. 27–5 Un.	S.J. 27–5 Un.
NM 2101 26 114 114M ₩ ₩ ₩	(WEISER) NM 8610 M.O.I. MM 38	NM 8736 WILLIAMS PROD. 96E
M 2 2 35.35 T ₁ 36.47 M 2 T ₃ 41.53 + 4 43.53 + 5 45.27	(NWPC)	96 32 M W
3 ⊕ □ 123 → H	—————————————————————————————————————	15 196 NM 4348 D PA'96 NM4940 964 108
S.J. 27–5 Un.	RO9 1	S.J. 27–5 Un.

Burlington Resources



Proposed Well

